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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,517	01/03/2002	Don Carl Powell	MIO 0059 V2	3647
7	590 04/09/2004		EXAM	INER
Killworth, Gottman, Hagan & Schaeff, L.L.P.			LE, DUNG ANH	
Suite 500 One Dayton Ce	entra		ART UNIT	PAPER NUMBER
	011 45400 0000		2818	= 10, 10 = 10,
			DATE MAILED: 04/09/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/039,517	POWELL ET AL.			
Notice of Allowability	Examiner	Art Unit)		
(Supplemental)	DUNG A LE	2818	pr		
	DONGALE	2010			
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicat GHTS. This application is subject	application. If not included ion will be mailed in due co	urse. THIS		
1. This communication is responsive to					
2. 🔀 The allowed claim(s) is/are <u>30-47 and 49-60</u> .					
3. The drawings filed on <u>03 January 2002</u> are accepted by the Examiner.					
 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this national stage application from the					
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:	- 1 05 11 0 0 0 440(-) (t	data and an alter Care Values a	'C-		
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.					
(a) The translation of the foreign language provisional application has been received.					
6. Acknowledgment is made of a claim for domestic priority ur in the first sentence of the specification or in an Application	nder 35 U.S.C. §§ 120 and/or 121	I since a specific reference	was included		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.					
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.					
 8. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No 					
(b) including changes required by the proposed drawing of Examiner.	orrection filed <u>17 October 2002</u> ,	which has been approved	by the		
(c) including changes required by the attached Examiner's	s Amendment / Comment or in th	e Office action of Paper No	··		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			ack) of		
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T			te the		
Attachment(s)					
1 ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of Informal	Patent Application (PTO-15	52)		
2 Notice of Draftperson's Patent Drawing Review (PTO-948)		ry (PTO-413), Paper No	·		
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No	^{1),} 7⊠ Examiner's Amen	dment/Comment			
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Stater 9□ Other	nent of Reasons for Allowa	nce		
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DETAILED ACTION

Claims 1- 29 have been cancelled in Preliminary Amendment.

Election/Restrictions

The cancellation of claims 1- 31 and 43-74 in Notice of Allowance of 2/19/2004 is rescinded.

Claims 30- 74 are pending in this application.

This application contains claims directed to the following patentably distinct species of the claimed invention:

- a) Species I, e.g. claims 30-47 and 49-60: A semiconductor device having a precursor layer comprising a metal-free silicon-containing material.
- b) Species II, e.g. claims 48, and 61-74: A semiconductor device having a siliconcontaining material that have been reacted with a reactive agent to form a barrier layer.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claims is finally held to be allowable. Currently, no claim is generic. Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. 1.141. If claims are added after the selection, applicant must indicate which are readable upon the elected species.

M.P.E.P. 809.02(a). Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103 of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filled petition under 37 C.F.R. 1.48(b) and by the fee required under 37 C.F.R. 1.17(h).

During a telephone conversation with Mr. Tim Hagan at (937) 223-2050 on March 08, 2004, a election was made without traverse to prosecute the invention of Species I, claims 30-47, and 49-60.

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Reason for allowance

Claims 30- 47 and 49- 60 are allowed. The following is an examiner's statement of reason for allowance: None of the references of record teaches or suggests the claimed Semiconductor device having a precursor layer comprising a metal-free siliconcontaining material and among other limitations as claimed in independent claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung A. Le whose telephone number is (571) 272-1784. The examiner can normally be reached on Monday-Friday 8:00am-5: 30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

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information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Examiner's Amendment.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Cancel Claims 48 and 61-74.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung A. Le whose telephone number is (571) 272-1784. The examiner can normally be reached on Monday-Friday 8:00am-5: 30pm.

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DUNG A LE Primary Examiner

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